



PERSONAL INFORMATION:

Full Name: Marjan Mohammadzadeh

Nationality: Iranian

Academic Level: Associate Professor

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mohammadzadeh@gau.ac.ir

EDUCATION:

Ph.D.: 2009

Environmental Design and Recreational Planning, 3.5 years by research

Department of Mathematical and Geospatial Sciences

RMIT University

Melbourne, Australia

Thesis: Developing a Visitor Decision Support System for Natural Tourist Destinations

M.Sc.: 2001

Environmental Design, 3 years by course with thesis

Faculty of Environment

Tehran University

Tehran, IRAN

Thesis: Organising and Designing of Golshan Recreational Center at Golestan National Park; based on ecological assessment to achieve sustainable development

B.Sc.: 1997

Fisheries and Environmental Sciences

Department of Natural Resources

Gorgan University of Agricultural Sciences and Natural Resources

Gorgan, IRAN

Thesis: Zoning of Golestan National Park

RESEARCH INTEREST:

- Ecotourism and tourism planning in protected areas
- Visitor decision support system for natural tourist destination
- Visual quality assessment in natural areas

PUBLICATION:

RESEARCH PROJECTS:

- Management and development of tourist areas with emphasis on identifying tourist attractions, (Case study: Ramiyan Township). 2023. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
- Modeling the aesthetic quality of the landscape in the GIS environment based on the mapping of visual indicators (case study: Ziarat watershed). 2023. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
- Developing Z Hike (an android application) to introduce walking tracks characteristics (case study: Naharkhoran forest park, Gorgan). 2023. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
- Using ecosystem services and landscape aesthetic values for land allocation optimization. 2019. Iran National Science Foundation Science, Deputy of Presidency.
- National plan of the Integrated National Protected Areas System based on IUCN management categories. 2019. The Department of the Environment of Iran.
- Zoning the ecological, socio-economic and aesthetic quality of Gorgan city. 2018. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
- Investigating the preferences of visitors in choosing hiking trails in natural tourism destinations: hiking trails in Gorgan, Ziarat watershed. 2017. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
- Studying the level of satisfaction of visitors to the facilities and facilities of Alangdare Forest Park, Gorgan. 2017. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.

- Studying the level of satisfaction of visitors to the facilities and facilities of Ghorogh Forest Park, Gorgan. 2017. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
 - Designing an ecological park in Shasat Kalate Educational Forest - Gorgan University of Agricultural Sciences and Natural Resources. 2016. Gorgan University of Agricultural Sciences and Natural Resources.
 - Evaluation of psychological carrying capacity of Deland Forest Park. Department of Environmental Sciences. 2015. Gorgan University of Agricultural Sciences and Natural Resources.
 - Determining the most important factors affecting the evaluation of the visual quality of the landscape using PCA analysis. 2014. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
 - Study of walking trails using GPS and GIS, case study: Gorgan, Ziarat watershed. 2013. Department of Environmental Sciences, Gorgan University of Agricultural Sciences and Natural Resources.
 - Recreational Zones Planning and Design (First Phase): Current Recreational Zones in Golestan National Park. 2011. Department of Environmental Sciences. Gorgan, IRAN.
- Studying and preparing the detailed plan of Golestan National Park - first stage (recreational zones). 2010. The Department of the Environment (Golestan Province, IRAN).
- Spatial and Functional Development of Shir-Abad Location for Tourism and Ecotourism Planning and Design. 2001. Department of programming and Management. Golestan Province. IRAN.
 - Determining Design Criteria for Recreational Areas in National Parks (Case Study: Golshan Recreational Area in Golestan National Park). 2001. Tehran University, IRAN.
 - A Survey on the Effect of Factor Map Overlying Order and Generalizing in Ecological Potential as Current Method of Land Use Planning in Iran. 2000. Gorgan University of Agricultural Sciences and Natural Resources, IRAN.
 - A Survey on the Non-Wetland Area for Provisional Habitat Evaluation Controls. 1998. Gorgan University of Agricultural Sciences and Natural Resources. Faculty of Fisheries and Environment, IRAN.

PRESENTATIONS

- Aghili Nasab, S. Z., Mohammadzadeh, M., Salman Mahini, A. and Zarei, H. 2012. Investigating the functions of green spaces in improving urban ecosystems in desert areas, the second environmental planning and management conference, University of Tehran, June 27 and 28.
- Aghili Nasab, S. Z., Mohammadzadeh, M., Salman Mahini, A. and Zarei, H. 2012. The role of green space in urban climate change control and improvement, the second environmental planning and management conference, University of Tehran, May 26 and 27.
- Divband, S. and Mohammadzadeh, M. 2012. Investigating the recreational demand of visitors: an important tool for managing visitors in nature resorts, the 6th World Environment Day National Conference, University of Tehran, June 24-26.
- Divband, S. and Mohammadzadeh, M. 2012. The importance of investigating the recreational demand of visitors at the beaches, the first international conference on the environment and geopolitics of the Persian Gulf, Qeshm Island, June 3-4.
- Jafari, Z., Mikaili, A., Mohammadzadeh, M. and Abdi, A. 2011. Selection of effective criteria in determining the most appropriate place for nature tourism, case study: Golestan National Park, International Conference on Tourism Economics and Management, Tehran, May 14-15.
- Jafari, Z. and Mohammadzadeh, M. 2011. Investigating how to evaluate natural resources for nature-based tourists, International Tourism Economics and Management Conference, Tehran, April 14-15.
- Masoodi, M., Salman Mahini, A., Mohammadzadeh, M., Mirkarimi, S. H. and Abdi, O. 2011. A New Approach to Bird-watching Potential Assessment (Case Study: Miankaleh Wildlife Refuge), International Conference on Economics and Management Tourism, Tehran, May 14-15.
- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M., Mirkarimi, S. H. and abdi, A. 2011. Managing visitors in protected areas by determining recreational opportunities, the first international conference on tourism management and sustainable development. Islamic Azad University, Marvdasht branch, September 28-29.
- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M., Mirkarimi, S. H. and Abdi, A. 2011. Recreational positioning using decision support systems (case study: Miankala Wildlife Sanctuary), the first international conference on tourism management and sustainable development. Islamic Azad University, Maroodasht branch, September 28-29.

- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M., Mirkarimi, S. H. and Abdi, A. 2011. The use of multi-criteria evaluation for bird's-eye positioning, the first international conference on tourism management and sustainable development. Islamic Azad University, Marvdasht branch, September 28-29.
- Rafiani Khachak, P., Mohammadzadeh, M. and Arab, M. 2011. A review of the effects of visitors on walking paths in natural resort areas, tourism and sustainable development conference, Hamedan, July 22-23.
- Rafiani Khachak, P., Mohammadzadeh, M. and Mirkarimi, S. H. 2011. Investigation and comparing walking tracks in natural recreational areas using GPS and GIS (case study: walking track in the west of Ziyarat basin), International Conference on Tourism Economics and Management, Tehran, May 14-15.
- Rafiani Khachak, P., Mohammadzadeh, M. and Mirkarimi, S. H. 2011. The development of pedestrian routes, an opportunity to protect natural recreational areas, the fifth national conference of World Environment Day.
- Rafiani Khachak, P., Mohammadzadeh, M. and Mirkarimi, S. H. 2011. Walking tracks classification systems and its application in ecotourism industry, International Conference on Tourism Economics and Management, Tehran, May 14-15.
- Sheibani Nia, K. and Mohammadzadeh, M. 2012. The range of acceptable model changes for sustainable management of tourism in protected coastal areas of the Persian Gulf, the first international conference on environment and geopolitics of the Persian Gulf, Qeshm Island, June 3-4.
- Sheibani Nia, K. and Mohammadzadeh, M. 2012. Using the experiences of visitors and protecting VERP resources (a method for determining range capacity in protected areas), the second environmental planning and management conference, University of Tehran, May 26 and 27.
- Mohammadzadeh, M. and Haji Qalikhani, M. 2010. The role of ecotourism in protecting biodiversity, National Conference on Biodiversity and its Impact on Agriculture and Environment, August 17, 2010, Urmia, East Azerbaijan.
- Galdavi, S., Mohammadzadeh, M., Salman Mahini, A. and Najafinejad, A. 2010. Investigating the extent of forest land using remote sensing (RS) and geographic information system (GIS) (case study: Ziarat watershed of Golestan province), the 16th international conference and the 4th international conference of Iranian biology, Shahrivar 23-25, Mashhad, Razavi Khorasan.
- Galdavi, S., Mohammadzadeh, M., Salman Mahini, A. and Najafinejad, A. 2010. Investigating the growth of cities and its effects on their surroundings using

satellite images (case study: Gorgan city), the first national conference on natural resources research in Iran, Sanandaj, Kurdistan, October 28-29.

- Mohammadi, S., Zarei, H. and Mohammadzadeh, M. 2010. Investigating the importance of plant arrangement ideas in the green space of Isfahan city (case study of Hasht Behesht Park), the fifth national conference of new ideas in agriculture, Isfahan, 28-27 Bahman.

- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M., Mirkarimi, S. H. and Abdi, A. 2010. Determining and developing recreational activities in protected areas according to visitors' opinions (case study: Miankala Wildlife Sanctuary), the second national conference of Iranian wetlands, Ahvaz, March 12 and 11.

- Mirkarimi, S. H., Salman Mahini, A., Mohammadzadeh, M., Mostafavi, S. M. and Kamilifar, J. 2008. Investigating the possibility of considering micro-urban climates as a basis for decision-making in city excess consumption tariffs, National Conference on Increasing Productivity and Reducing Losses in Electric Energy Networks, Mazandaran, Sari, 2008.

- Mohammadzadeh, M., Arrowsmith, C. and Pettit, C. 2007. "Developing a Visitor Decision Support System for Natural Tourist Destinations", Abstract Booklet of the Research Partners Conference 2007 'Better Park Management through Collaboration', Parks Victoria, Melbourne, November.

- Mohammadzadeh, M., Arrowsmith, C. and Pettit, C. 2005. "Sustainable Design Modeling in Coastal Protected Areas", Proceeding of the Spatial Science Conference 2005 'Spatial Intelligence, Innovation and Praxis' the biennial conference of the Spatial Science Institute, Melbourne, Spatial Sciences Institute. ISBN 0-9581366-2-9, September.

JOURNAL ARTICLE

In English:

ISI Journals:

- Parvar, Z., Mohammadzadeh, M. & Saeidi, S. 2024. LCZ Framework and Landscape Metrics: Exploration of Urban and Peri-urban Thermal Environment Emphasizing 2/3D Characteristics. **Building and Environment**.

- Ahmadi Mirghaed, F., Mohammadzadeh, M., Salmanmahiny, A. & Mirkarimi, S. H. 2020. Decision scenarios using ecosystem services for land allocation optimization across Gharehsoo watershed in northern Iran. **Ecological Indicators**.

- Ahmadi Mirghaed, F., Mohammadzadeh, M., Salmanmahiny, A. & Mirkarimi, S. H. 2019. Assessing the interactions between landscape aesthetic quality and spatial indices in Gharasoo watershed, North of Iran. **International Journal of Environmental Science and Technology**.
- Ahmadi Mirghaed, F., Sour, B., Mohammadzadeh, M., Salmanmahiny, A. & Mirkarimi, S. H. 2018. Evaluation of the relationship between soil erosion and landscape metrics across Gorgan Watershed in northern Iran. **Environmental monitoring and assessment**.
- Saeidi, S., Mirkarimi, S.H. Mohammadzadeh, M., Salmanmahiny, A. and Arrowsmith, C. 2018. Land use changes associated with urbanization often have negative impacts on scenic beauty. **Geocarto International**.
- Saeidi, S., Mohammadzadeh, M., Salmanmahiny, A. and Mirkarimi, S.H. 2017. Performance evaluation of multiple methods for landscape aesthetic suitability mapping: A comparative study between Multi-Criteria Evaluation, Logistic Regression and Multi-Layer Perceptron neural network. **Land Use Policy**.
- Saeidi, S., Mirkarimi, S.H. Mohammadzadeh, M., Salmanmahiny, A. and Arrowsmith, C. 2017. Designing an integrated urban growth prediction model: a scenario-based approach for preserving scenic landscapes. **Geocarto International**.
- Masoodi, M., Salman Mahiny, A., Mohammadzadeh, M. and Mirkarimi, S. H. 2016. Optimization of Recreational Site Selection Using Multi Criteria Evaluation and Functional Relationship Diagram (Case Study: Miankaleh Wildlife Sanctuary). **Pollution**. 2 (2): 181-163.
- Mirkarimi, S.H., Mohammadzadeh, M. And Galdavi, S. 2015. Social and Recreational Carrying Capacity Assessment of Daland Forest Park, Golestan, Iran. **Environmental Resources Research Journal**.
- Galdavi, S., Mohammadzadeh, M., Salaman Mahiny, A. and Najafi Nejad, A. 2013. Urban Change Detection Using Multi-temporal Remotely Sensed imagery (Case Study: Gorgan Area, Northern Iran). *Environment and Urbanization ASIS*, **SAGE Publication**, 4(3): 339-348.

Scopus Journals:

- Saeidi, S., Mohammadzadeh, M., Salman Mahini, A. and Mirkarimi, S. H. 2016. Application of logistic regression method in modeling the aesthetic quality of landscape (case study: Ziarat watershed of Golestan province). *Journal of Environmental science*. (Scopus journal)

- Mirkarimi, S. H., Saidi, S., Mohammadzadeh, M. and Salman Mahini, A. 2014. The application of PCA method in evaluating the visual quality of the landscape. Journal of Environmental Science, Volume 40, Number 2, 462-451. (Scopus journal)

IN PERSIAN:

- Tajabadi, A, Mohammadzadeh, M. & Saeidi, S. 2023. Estimating Land Surface Temperature Using the RTE Algorithm and Investigating its Relationship with Land Use: A Case Study in Karaj City, Geographical Planning of Space Quarterly Journal. (In Persian). 10.30488/GPS.2024.426023.3696

- Amirian, S., Mohammadzadeh, M., Mirkarimi, S.H. and Saidi, S. 2022. Identification of economic and cultural criteria affecting aesthetic values using Delphi method and public questionnaire in Gorgan city. Journal of renewable natural resources research. (In Persian)

- Galdavi, S., Mohammadzadeh, M., Mirkarimi, S.H. and Salman Mahini, A. 2022. Locating areas susceptible to the development of urban parks and green spaces using the multi-criteria evaluation method (MCE) and the AHP approach. Geographical Planning of Space Quarterly Journal. (In Persian)

- Parvar, Z., Mohammadzadeh, M. and Saeidi, S. 2022. Analysis of spatial heterogeneity and factors affecting the surface temperature of the earth using spatial regression models. Journal of renewable natural resources research. (In Persian)

- Parvar, Z., Mohammadzadeh, M. and Saeidi, S. 2022. Quantitative assessment of spatio-temporal dynamics of land use/cover and land surface temperature using different algorithms and Landsat data. Journal of Natural environment. (In Persian)

- Saeidi, S., Mirkarimi, S. H. Mohammadzadeh, M. and Salman Mahini, A. 2022. Comparison of different experimental, mathematical and intelligent methods in evaluating the aesthetic quality of the urban landscape (case study: Gorgan city). Journal of renewable natural resources research. (In Persian)

- Ardakani, T., Mikayili, A., Salman Mahini, A. and Mohammadzadeh, M. 2021. Improving the management of visiting areas based on the key strategies of ecotourism management. Journal of environmental science and technology. (In Persian)

- Broghni, M., Mirkarimi, S.H., Mohammadzadeh, M. and Saeidi, S. 2021. Analysis of the basic components in identifying the most important criteria affecting the

preference of walking routes in Ziarat watershed. Journal of environmental research. (In Persian)

- Hajizadeh, F., Mirkarimi, S. H., Salman Mahini, A. and Mohammadzadeh, M. 2020. Qualitative measurement and zoning of the urban living environment with emphasis on the mental image of the citizens. Case study: Gorgan city. Geographical Planning of Space Quarterly Journal. (In Persian)

- Akhgari Seng Atash, Z., Mirkarimi, S. H., Mohammadzadeh, M. and Salman Mahini, A. 2019. Identifying the most important criteria for evaluating the visual quality of the streetscape using the visual quality classification method and the measures achievement matrix. Two scientific-research quarterly journals of urban ecology research. (In Persian)

- Ahmadi Mirghaed, F. A., Mohammadzadeh, M., Salman Mahini, A. and Mirkarimi, S. H. 2018. Evaluation of the tourism attractions of the Qarasu watershed based on the degree of influence and effectiveness of environmental indicators. Journal of town and country planning. (In Persian)

- Akhgari Seng Atash, Z., Mirkarimi, S. H., Mohammadzadeh, M. and Salman Mahini, A. 2018. Comparative assessment of prioritization of effective criteria on the beauty of urban streetscape. Journal of environmental science and technology. (In Persian)

- Ardakani, T., Mikaeili Tabrizi, A.R., Salman Mahini, A. and Mohammadzadeh, M. 2018. Determining the spectrum of recreational opportunities in potential tourism areas using structural equations. Journal of planning and tourism development. (In Persian)

- Goldavi, S., Mohammadzadeh, M., Makhdoom, M., Mirkarimi, S. H. and Salman Mahini, A. 2018. Development and management of resort areas by examining the needs and preferences of visitors. Journal of environmental science and technology. (In Persian)

- Saeidi, S., Mirkarimi, S. H. Mohammadzadeh, M. and Salman Mahini, A. 2018. Investigating the effects of the development of Gorgan city on the suitability of areas with aesthetic value. Geographical Planning of Space Quarterly Journal. (In Persian)

- Ahmadi Mirghaed, F. A. and Mohammadzadeh, M. 2017 investigation and identification of important and effective elements in the evaluation of the aesthetic quality of the landscape. Journal of human and environment types. (In Persian)

- Mohammadi, A., Mirkarimi, S. H. and Mohammadzadeh, M. 2017. Using life cycle assessment to compare the environmental effects of green roofs and conventional roofs. Journal of environmental science and technology. (In Persian)

- Ahmadi Mirghaed, F. A., Mohammadzadeh, M., Salman Mahini, A. and Mirkarimi, S. H. 2016. Integration of visual and environmental elements using fuzzy and multi-criteria methods in evaluating the aesthetic quality of Qarasu watershed. Journal of remote sensing and geographic information system in natural resources, Golestan province, year 7, number 3, 46-60. (In Persian)
- Mirkarimi, S. H., Mohammadzadeh, M. and Galdavi, S. 2016. A model for investigating recreational needs of forest park visitors. Journal of Environmental Science and Technology Quarterly. (In Persian)
- Galdavi, S., Mohammadzadeh, M. 2016. Investigating approaches to managing the effects of visitors in recreational and protected areas. Journal of human and environment. (In Persian)
- Saeidi, S., Mohammadzadeh, M., Salman Mahini, A. and Mirkarimi, S. H. 2016 Identification of the most important criteria affecting the visual quality of the landscape. Journal of environmental sciences and technology. (In Persian)
- Saeidi, S., Mohammadzadeh, M., Salman Mahini, A. and Mirkarimi, S. H. 2016. Objective and subjective factors affecting the understanding of the aesthetic value of the landscape. Journal of protection and exploitation of natural resources, year 5, number 1, 17-36. (In Persian)
- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M. and Mirkarimi, S. H. 2015. Ecotourism planning in protected areas using multi-criteria evaluation. Journal of Natural Environment, Number 69, Year 1, 229-211. (In Persian)
- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M. and Mirkarimi, S. H. 2015. Investigating the recreational preference of visitors and the factors affecting it in the Miankaleh Wildlife Sanctuary. Journal of Applied Ecology, 4th year, No. 12, 23-39. (In Persian)
- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M. and Mirkarimi, S. H. 2015. Evaluation of climatic comfort conditions of Miankaleh Wildlife Sanctuary for the development of nature tourism. Journal of Natural Environment, 4th year, number 12, 23-39. (In Persian)
- Aghili Nasab, Z., Mohammadzadeh, M., Salman Mahini, A. and Zarei, H. 2014. Investigating the effects of urban green spaces on the temperature and relative humidity of the surrounding environment. Journal of Environmental Research, Year 5, Number 10, 53-62. (In Persian)
- Rafiani Khachak, P., Mohammadzadeh, M. and Mirkarimi, S. H. 2014. Guide to design and construction of sustainable walking trails in natural recreational areas. Journal of Environment and development. Year 5, Number 9, 21-30. (In Persian)

- Rafiani Khachak, P., Mohammadzadeh, M. and Mirkarimi, S. H. 2014. Visual evaluation of the quality of landscapes based on the perceptual approach; A model for better management of natural recreational areas (case study: hiking trails in the watershed of Ziarat, Gorgan). Journal of Environmental Research, year 5, number 9, 3-14. (In Persian)
- Saeidi, S., Mohammadzadeh, M., Salman Mahini, A. and Mirkarimi, S. H. 2014. Evaluation and modeling of the landscape value of the landscape using the weighted linear combination method. Journal of Natural Environment, Volume 67, Number 3, 311-301. (In Persian)
- Aghili Nasab, S. Z., Mohammadzadeh, M., Salman Mahini, A. and Zarei, H. 2013. Analysis of urban heat islands using remote sensing and its relationship with environmentally friendly development. Journal of Environment and Development, Year 3, Number 8, pp. 79-88. (In Persian)
- Mazloun, B. Z. and Mohammadzadeh, M. 2013. Investigating the barriers to the application of the research findings of natural resources and environment within the country in executive bodies. Journal of Environmental Management and Planning Quarterly, 3rd year, 2nd issue, 41-46. (In Persian)
- Mirzaei, M. and Mohammadzadeh, M. 2013. Factors affecting citizens' satisfaction with urban streets and the relationship between these factors and social capital. Journal of Urban Ecology Research, No. 8, 67-80. (In Persian)
- Rafiani Khachak, P., Mohammadzadeh, M. and Mirkarimi, S. H. 2013. Guidelines for the development of walking trails in recreational areas. Journal of Tourism Management Studies, No. 21, 145-165. (In Persian)
- Galdavi, S., Mohammadzadeh, M., Salman Mahini, A. and Najafinejad, A. 2012. Application of L-THIA model in evaluating the effects of land use change on water resources. Journal of environment and development, third year, number six, 35-46. (In Persian)
- Jafari, Z., Mikaili, A., Mohammadzadeh, M. and Abdi, A. 2011. Evaluation of the tourism potential of Golestan National Park using multi-criteria evaluation method and GIS. Renewable Natural Resources Research Journal, 2nd year, 4th issue, 26-37. (In Persian)
- Masoudi, M., Salman Mahini, A., Mohammadzadeh, M., Mirkarimi, S. H. and Abdi, A. 2011. Evaluation of recreational opportunities in Miankala Wildlife Sanctuary. Journal of Environment and Development, Year 2, Number 3, pp. 53-60. (In Persian)
- Behbahani, H., Mohammadzadeh, M. and Mirkarimi, S.H. 2005, determination of criteria for the design of recreational zones in Iran's national parks, study

example: Golshan Recreational Park of Golestan National Park. Natural Resources Journal, (1) 58, pp: 135-150. (In Persian)

ACADEMIC TEACHING EXPERIENCE:

- Technical drawing
- Introduction to natural environment
- Park and garden designing
- Urban green spaces
- Ecotourism
- Research procedure
- Urban ecology
- Planning and design of recreational areas
- Assessment and analysis of the landscape
- Estimating the carrying capacity of the environment

AWARDS:

- PhD Scholarship – Australian Government, Department of education (IPRS)
- PhD Scholarship – Iranian Government, Ministry of Science, Research and Technology

LANGUAGES:

Persian
English